

Appl. No. 10/815,472
Amdt. dated 7/03/2006
Reply to the Office Action of 4/03/2006

Listing of Claims:

Please amend Claims 1, 12, and 13, Cancel Claim 6, and add New Claims 21-23.

1. **(Currently Amended)** An electronic component comprising:
a substrate and at least two piezoelectric resonators each having an active element, a lower electrode and an upper electrode, wherein the lower electrode of the first resonator is made of a material that is different from that of the lower electrode of the second resonator such that the resonators exhibit different resonance frequencies, each resonator including a lower electrode, an active element and an upper electrode, the active element of a first resonator being made of a material that is different from that of the active element of a second resonator.
2. **(Original)** The electronic component according to Claim 1, wherein the resonance frequencies differ by at least 10%.
3. **(Original)** The electronic component according to Claim 1, wherein each resonator includes a lower electrode, an active element and an upper electrode, the lower electrode of a first resonator being of different thickness from that of the lower electrode of a second resonator.
4. **(Original)** The electronic component according to Claim 1, wherein each resonator includes a lower electrode, an active element and an upper electrode, the upper electrode of a first resonator being made of a material that is different from that of the upper electrode of a second resonator.
5. **(Original)** The electronic component according to Claim 1, wherein each resonator includes a lower electrode, an active element and an upper electrode, the upper electrode of a first resonator being of thickness that is different from that of the upper electrode of a second resonator.

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6. **(Cancelled)**
7. **(Original)** The electronic component according to Claim 1, wherein each resonator includes a lower electrode, an active element and an upper electrode, the active element of a first resonator being of thickness that is different from that of the active element of a second resonator.
8. **(Original)** The electronic component according to Claim 1, wherein it includes at least three resonators exhibiting resonance frequencies belonging to at least three different frequency bands.
9. **(Original)** The electronic component according to Claim 1, wherein it includes four resonators exhibiting resonance frequencies belonging to four different frequency bands.
10. **(Original)** The electronic component according to Claim 1, wherein the electrodes are made of a material chosen from aluminum, copper, molybdenum, nickel, titanium, niobium, silver, gold, tantalum, lanthanum, platinum and tungsten.
11. **(Original)** The electronic component according to Claim 1, wherein the active element includes crystalline aluminum nitride, zinc oxide, zinc sulphide, ceramic including LiTaO_3 , LiNbO_3 , PbTiO_3 , PbZrTiO_3 , KNbO_3 and/or lanthanum.
12. **(Currently Amended)** The electronic component according to Claim 1, wherein the active element has a thickness of between 0.5 and 5 μm ~~[[.]]~~, ~~preferably between 1 and 3 μm .~~
- 13 **(Currently Amended)** The electronic component according to Claim 1, wherein the electrodes have a thickness of less than 1 μm ~~[[.]]~~, ~~preferably less than 0.3 μm .~~
- Claims 14-20. **(Cancelled)**

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21. (New) An electronic component comprising:
a substrate and at least two piezoelectric resonators each having an active element, a lower electrode and an upper electrode, wherein the lower electrode of the first resonator is made of a material that is different from that of the lower electrode of the second resonator such that the resonators exhibit different resonance frequencies, each resonator including a lower electrode, an active element and an upper electrode, the active element of a first resonator being of thickness that is different from that of the active element of a second resonator.
22. (New) The electronic component according to Claim 1, wherein the active element has a thickness of between 1 and 3 μm .
23. (New) The electronic component according to Claim 1, wherein the electrodes have a thickness of less than 0.3 μm .